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(71) Applicant (for all designated States except US): **FUJI PHOTO FILM CO., LTD.** [JP/JP]; 210, Nakanuma, Minami-ashigara-shi, Kanagawa, 2500123 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SATO, Takanori** [JP/JP]; c/o Fuji Photo Film Co., Ltd., 200, Onakazato,

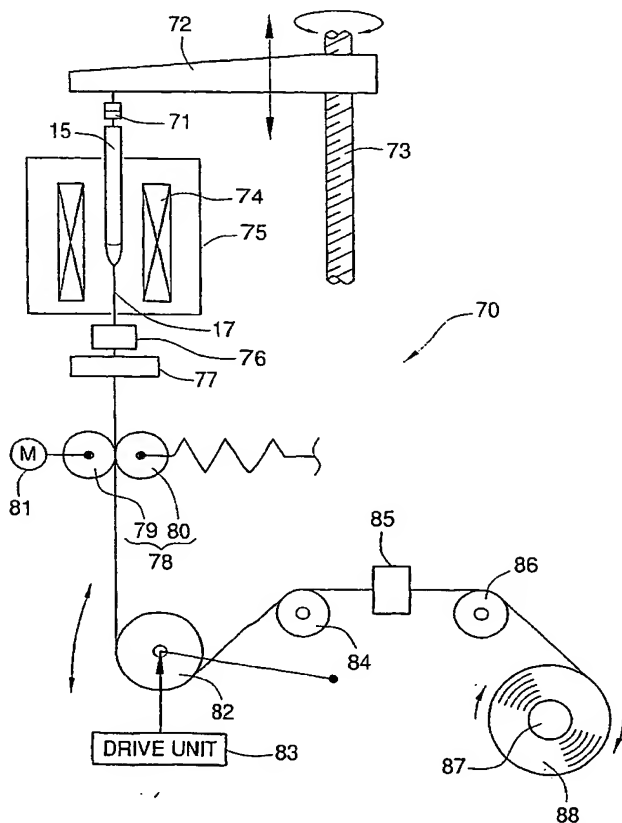
Fujinomiya-shi, Shizuoka, 4180044 (JP). **KARAKI, Hideyuki** [JP/JP]; c/o Fuji Photo Film Co., Ltd., 210, Nakanuma, Minami-ashigara-shi, Kanagawa, 2500123 (JP). **KEGASAWA, Tadahiro** [JP/JP]; c/o Fuji Photo Film Co., Ltd., 200, Onakazato, Fujinomiya-shi, Shizuoka, 4180044 (JP).

(74) Agents: **KOBAYASHI, Kazunori** et al.; Taiyo Seimei Ot-suka Bldg. 3F, 25-1, Kita-Otsuka 2-chome, Toshima-ku, Tokyo 1700004 (JP).

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(54) Title: **PLASTIC OPTICAL FIBER AND METHOD FOR MANUFACTURING THE SAME**



(57) Abstract: A preform (15) having a clad part of PVDF and a core part of PMMA is manufactured. The preform (15) is partially heated in a heating furnace (74) of 240°C. The preform (15) is subject to the melt-drawing process to form a plastic optical fiber (17). The drawing tension to the preform (15) is measured by use of a drawing tension measure device (76). Based on the measured value, a drawing roller pair (78) adjusts the drawing tension to be 3.8 MPa. The plastic optical fiber (17) is fed via a dancer roller (82) and rollers (84, 86) toward a bobbin (87) to wind the plastic optical fiber (17). A winding tension measure device (85) measures the winding tension to the POF (17). Based on the measured value, the dancer roller (82) changes its position to adjust the winding tension to be 2.5 MPa.